

# RH9A Series

## High resistance, high voltage decade resistance box with SP1 switch

Designed using the Cropico high-quality SP1 switch, combined with specially selected resistors, this range of high ohm resistance decades is ideal for the calibration of insulation test sets having a voltage rating up to 5kV.

Housed in a rugged carrying case and available in either 3, 6, or 9 decades, the RH9A series covers the range  $1\text{k}\Omega$  to  $1\text{T}\Omega$  and is equally at home in the laboratory workshop or field application.

A single decade unit is also available with 10 switched values from  $1\text{k}\Omega$  to  $1\text{T}\Omega$ .

Each RH9A Series unit is supplied with high voltage test leads (1m in length) and calibration certificate.

### Key Features

- 1, 3, 6 & 9 decades available
- Range  $1\text{k}\Omega$  to  $1\text{T}\Omega$
- Max voltage 5kV
- Accuracy  $\pm 0.1\%$
- Portable case

### Ideal For

- Calibration houses
- Laboratories/workshops



[www.seaward.co.uk/RH9A](http://www.seaward.co.uk/RH9A)

For USA, Canada and Mexico enquiries Tel: +1 (813) 886 - 2775

For all other enquiries Tel: +44 (0) 191 587 8741

Email: [sales@seaward.co.uk](mailto:sales@seaward.co.uk)

## Technical Specifications

### RH9A, RH9A-2 & RH9A-3 Specification

RH9A	RH9A-1	RH9A-2	RH9A-3	Decade	Accuracy @ Certified Voltage 1Kv Max	Typical Voltage Coeff	Max V/Step *	Power Rating	Temp Coeff
✓		✓		10 x 1kΩ	±0.1%	<1ppm/V	30V	1W	±50 ppm/°C
✓		✓		10 x 10kΩ	±0.1%	<1ppm/V	100V	1W	±50 ppm/°C
✓		✓		10 x 100kΩ	±0.1%	<1ppm/V	300V	1W	±50 ppm/°C
✓		✓	✓	10 x 1MΩ	±0.1%	<1ppm/V	350V	1W	±50 ppm/°C
✓		✓	✓	10 x 10MΩ	±1%	1ppm/V	3,500V	1.5W	±100 ppm/°C
✓		✓	✓	10 x 100MΩ	±1%	1ppm/V	4,000V	1.5W	±100 ppm/°C
✓	✓		✓	10 x 1GΩ	±1%	1ppm/V	4,000V	3.5W	±100 ppm/°C
✓	✓		✓	10 x 10GΩ	±1%	1ppm/V	5,000V	3.5W	±250 ppm/°C
✓	✓		✓	10 x 100GΩ	±3%	25ppm/V	5,000V	1.3W	±2,000 ppm/°C

\*Maximum applied voltage should not exceed 5000V

### RH9A-5 Specification

Value	Accuracy @ Certified Voltage 1Kv Max	Typical Voltage Coeff	Max V/Step	Power Rating	Temp Coeff
1kΩ	±0.1%	<1ppm/V	30V	1W	±50 ppm/°C
10kΩ	±0.1%	<1ppm/V	100V	1W	±50 ppm/°C
100kΩ	±0.1%	<1ppm/V	300V	1W	±50 ppm/°C
1MΩ	±0.1%	<1ppm/V	350V	1W	±50 ppm/°C
10MΩ	±1%	1ppm/V	3,500V	1.5W	±100 ppm/°C
100MΩ	±1%	1ppm/V	4,000V	1.5W	±100 ppm/°C
1GΩ	±1%	1ppm/V	5,000V	3.5W	±100 ppm/°C
10GΩ	±1%	1ppm/V	5,000V	3.5W	±250 ppm/°C
100GΩ	±3%	25ppm/V	5,000V	1.3W	±2,000 ppm/°C
1TΩ	±3%	25ppm/V	5,000V	1.3W	±2000 ppm/°C

## General Specifications

### Dimensions

RH9A	460 x 380 x 160mm / 18 x 15 x 6.3" (w x h x d)
RH9A-1	460 x 380 x 160mm / 18 x 15 x 6.3" (w x h x d)
RH9A-2	460 x 380 x 160mm / 18 x 15 x 6.3" (w x h x d)
RH9A-3	460 x 380 x 160mm / 18 x 15 x 6.3" (w x h x d)
RH9A-5	220 x 110 x 90mm / 8.7 x 4.3 x 3.5" (w x h x d)

(All measurements approx)

### Mass

RH9A	8.8kg / 20lbs
RH9A-1	7kg / 16lbs
RH9A-2	8kg / 18lbs
RH9A-3	8kg / 18lbs
RH9A-5	0.8kg / 2lbs

### Services

1 year warranty (subject to product registration with Seaward.  
Visit [www.seaward.co.uk/register-product](http://www.seaward.co.uk/register-product))

Service and calibration by Calibrationhouse.

Go to [www.calibrationhouse.com](http://www.calibrationhouse.com) for more information

### Part Numbers

RH9A	930159
RH9A-1	930160
RH9A-2	930161
RH9A-3	930162
RH9A-5	930163

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